



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 20 91 59 97

**Classification of the application (IPC):**  
H04W 88/06, H04W 8/18, H04W 76/15, H04W 28/02, H04W 76/28

**Technical fields searched (IPC):**  
H04W

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	CN 110574466 A (XIAOMI COMMUNICATION TECHNOLOGY CO LTD) 13 December 2019 (2019-12-13) * the whole document * & EP 3993530 A1 (XIAOMI COMMUNICATIONS CO LTD [CN]) 04 May 2022 (2022-05-04) * paragraphs [0004], [0007] - [0014], [0045] - [0066], [0075], [0076] *	1-15
Y	US 2014120925 A1 (KANTHALA VENKATA RAJI REDDY [IN] ET AL) 01 May 2014 (2014-05-01) * paragraphs [0009], [0036], [0057] - [0067] *	1-15
A	US 2017230932 A1 (CHALLA NIKHIL [US] ET AL) 10 August 2017 (2017-08-10) * paragraphs [0062] - [0072], [0089] - [0110], [0115], [0120], [0135] *	1-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 07 December 2022	Examiner Isopescu, Ciprian
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### CATEGORY OF CITED DOCUMENTS

- |   |  |
|---|--|
| X: particularly relevant if taken alone   | P: intermediate document   |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention                        |
| A: technological background   | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure   | D: document cited in the application                                   |
| & : member of the same patent family, corresponding document                    | L: document cited for other reasons                                    |

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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 07-12-2022  
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
CN 110574466 A	13-12-2019	CN 110574466 A	13-12-2019
		EP 3993530 A1	04-05-2022
		US 2022369400 A1	17-11-2022
		WO 2020258049 A1	30-12-2020
US 2014120925 A1	01-05-2014	CN 104756591 A	01-07-2015
		EP 2915404 A1	09-09-2015
		JP 6367210 B2	01-08-2018
		JP 2015534414 A	26-11-2015
		KR 20150082404 A	15-07-2015
		US 2014120925 A1	01-05-2014
		WO 2014071246 A1	08-05-2014
US 2017230932 A1	10-08-2017	TW 201729616 A	16-08-2017
		US 2017230932 A1	10-08-2017
		WO 2017136078 A1	10-08-2017